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LIST OF PUBLICATIONS, JANUARY 1 TO JUNE 30 1929

Publications available for distribution at the laboratory are marked with an asterisk (*). Those not so marked are available as noted after the title.

Trade journals and magazines referred to, if not available in your local library, may be obtained from the publishers listed on pages 7 and 8.

CHEMISTRY OF WOOD

Density of wood substance, adsorption by wood, and permeability of wood, by A. J. Stamm, (in Journal of Physical Chemistry, pp. 398-414, March, 1929).

Determination of alpha-cellulose, by G. J. Ritter (in Industrial and Engineering Chemistry, analytical ed., pp. 52-54, January, 1929)

Dissection of wood fibrils by chemical means, by G. J. Ritter (in Industrial and Engineering Chemistry, pp. 289-90, March 1, 1929)

*Fiber-saturation point of wood as obtained from electrical-conductivity measurements, by A. J. Stamm (in Industrial and Engineering Chemistry, analytical ed., pp. 94-97, April 15, 1929) Mimeograph R859

GLUE, PLYWOOD, AND COATINGS

Consistency of animal glue, by Don Brouse (in Industrial and Engineering Chemistry, pp. 242-47, March 1, 1929)

*Joint tests for the selection of wood-working glues, by T. R. Truax, F. L. Browne, and Don Brouse (in Industrial and Engineering Chemistry, pp. 74-79, January, 1929) Mimeograph R825

Nature of adhesion between glue and wood, by F. L. Browne and Don Brouse (in Industrial and Engineering Chemistry, pp. 80-84, January 1929)

*Summary of the fourth progress report: Study of the painting characteristics of woods, 1924 series, by F. L. Browne, April, 1929. Mimeograph R847

Why modern wood furniture is veneered, by T. R. Truax, (in Good Housekeeping, pp. 52, 314, March, 1929)

PULP AND PAPER MANUFACTURE

Determination of cellulose and the amount of chlorine consumed in its isolation: A short method, by M.W. Bray (in Industrial and Engineering Chemistry, analytical ed., pp. 40-43, January 15, 1929)

Newly organized paper board committee studies program of work, by C. C. Heritage (in Paper Trade Journal, p. 50, May 30, 1929)

-----Same. (in Technical Association Papers of the Pulp and Paper Industry, pp. 44, 218, May, 1929)

*Problems of the western pulp and paper industry and forest utilization, by C. C. Heritage (in Pacific Pulp and Paper Industry, pp. 78-80, 122, 124, 128, March, 1929) Reprint

Pulp and paper making: Report on investigations into the suitability of selected New Zealand-grown woods, by C. E. Curran, P. K. Baird, E. R. Shafer, W. H. Monsson and G. H. Chidester, New Zealand ed. Pub. by the New Zealand Government, Wellington, N. Z.

Pulp and paper industry: Its relation to the work of the Forest Products Laboratory, by C. C. Heritage, (in Washington - Engineering Experiment Station Report No. 1, pp. 76-86, March 15, 1929)

-----Same. (in Pulp and Paper Magazine of Canada, pp. 37-38, 64, 66, January 10, 1929)

Pulping flax straw, Pt. 6: Properties of flax straw cellulose and its value in the cellulose industries, by E. R. Schafer and M. W. Bray (in Industrial and Engineering Chemistry, pp. 278-80, March 1, 1929)

Some problems of relating forestry to paper manufacture in terms of money, by C. C. Heritage (in Pulpwood, published by American Paper & Pulp Association, pp. 3-5, March, 1929)

*Utilization of hardwoods for pulp and paper, by C. E. Curran (in Paper Trade Journal, pp. 66-71, January 17, 1929) Reprint

-----Same. (in Technical Association Papers of the Pulp and Paper Industry, pp. 178-183, May, 1929)

Utilization of wood waste and waste woods through the semi-chemical pulping process, by C. E. Curran (in Paper Trade Journal, pp. 66-68, January 31, 1929)

-----Same. (in Technical Association Papers of the Pulp and Paper Industry, pp. 128-30, May, 1929)

SEASONING OF WOOD

Experiments on the determination of moisture in wood by laboratory methods, by E. Bateman and E. Beglinger (in American Wood Preservers' Association Proceedings of the 25th Annual Meeting, pp. 193-202, 1929)

*The kiln drying handbook, by Rolf Thelen, Department of Agriculture Bulletin No. 1136. Revised May, 1929

Wood checking and weathering can be prevented by paint, by Rolf Thelen (in 1928 Yearbook of the Department of Agriculture)

Wood for different uses needs different degrees of dryness, by Rolf Thelen (in 1928 Yearbook of the Department of Agriculture)

SHIPPING CONTAINERS

*Requirements for fiber containers in service, by C. A. Plaskett (in Fibre Containers, pp. 7-8, 10, 12, June, 1929) Reprint

-----Same. (in Paper Trade Journal, pp.46-48, MAY, 1929)

-----Same. (in Technical Association Papers of the Pulp and Paper Industry, pp.45-47, May, 1929)

*Suitability of little-used species of wood for shipping containers, by T. A. Carlson (in Barrel and Box, pp.15-19, March, 1929) Reprint

-----Same. (in American Lumberman, pp. 38-40, March 23, 1929)

-----Same. (in Packages. pp.11,14,16,22, March, 1929)

-----Same. (in Packing and Shipping, pp.21-25, March, 1929)

-----Same. (in Mississippi Valley Lumberman, pp .26-27, March 15, 1929)

-----Same. (in Timberman, pp. 138, 140, 142, March, 1929)

-----Same. (in Distribution Economy, pp. 32-35, 56, March, 1929)

WOOD PRESERVATION

*Absorption of wood preservatives should be based on the dimension of the timber, by J. D. MacLean (in American Wood Preservers' Association Proceedings of the 25th Annual Meeting, pp. 129-142, 1929) Reprint

-----Same. (in Engineering News-Record, pp. 176-79, January 31, 1929)

*Preservative treatment of farm timbers, second revision, U. S. Department of Agriculture, Farmers' Bulletin No. 744, by G. M. Hunt

Relation of atmospheric humidity to concentration of zinc chloride solution, by E. Bateman (in American Wood Preservers' Association Proceedings of the 25th Annual Meeting, pp. 120-25, 1929)

Wood of native trees compared regarding resistance to decay, by G. M. Hunt (in 1928 Yearbook of the Department of Agriculture)

Fence posts properly treated have greatly increased durability, by G. M. Hunt (in 1928 Yearbook of the Department of Agriculture)

WOOD UTILIZATION

*Black gum, by G. C. Morbeck (in Memphis Lumberman, pp. 13, 43-44, April, 1929; pp. 16-17, May, 1929; pp. 20, 42-44, June, 1929) Reprint

*Cutting the farm woodlot profitwise, by R. D. Garver, U. S. Department of Agriculture, Leaflet No. 30

*Quality of Appalachian hickory, by B. H. Paul (in Southern Lumberman, pp. 29-32, April 6, 1929) Reprint

-----Same. (in Wood Working Industries, pp. 14-16, April, 1929)

Ripping and trimming shortleaf pine lumber to increase its value, by R. D. Garver (in Southern Lumberman, p. 44, May 18, 1929)

Selective cutting in cross tie operations, by R. D. Garver (in Cross Tie Bulletin, pp. 12, 14, 16, June, 1929)

Wood-selection rules help but should not be followed blindly, by A. O. Benson (in 1928 Yearbook of the Department of Agriculture)

Lumber grades suited for various kinds of buildings on the farm, by C. V. Sweet (in 1928 Yearbook of the Department of Agriculture)

STRUCTURE OF WOOD

*Capillary structure of softwoods, by A. J. Stamm (in Journal of Agricultural Research, pp. 23-67, January 1, 1929) Reprint

MISCELLANEOUS

Creating new values from southern woods, by C. P. Winslow (in Hardwood Record, pp. 9, 11, 29, April 10, 1929)

-----Same. (in Southern Lumberman, pp. 35-36, May 11, 1929)

*Discussion of research on the relation of growth factors to the quality of wood produced in forest trees, by Arthur Koehler and B. H. Paul, June, 1929. Mimeograph R832

The grooved nail, by L. J. Markwardt and J. M. Gahagan (in Packing and Shipping, pp. 12-14, April, 1929)

-----Same. (in Wood Construction, pp. 8, 34, April, 1929)

-----Same. (in Distribution Economy, pp. 29-30, April 1929)

What the microscope reveals as to effects of turpentine on the pines, by Eloise Gerry (in Naval Stores Review, pp. 14-15, May 11, 1929)

What research can do for Pacific Coast woods, by C. P. Winslow (in West Coast Lumberman, pp. 14-15, 28-29, March, 1929)

List of

PUBLISHERS OF TRADE JOURNALS AND MAGAZINES INCLUDED IN REFERENCES

American Paper and Pulp Association, 18 E. 41st St., New York City

American Wood Preservers' Association, 111 W. Washington St., Chicago, Ill.

Farrel and Box, 542 S. Dearborn St., Chicago, Ill.

Cross Tie Bulletin, 1252 Syndicate Bldg., St. Louis, Mo.

Distribution Economy, 420 Lexington Ave., New York City

Engineering News-Record, 10th Ave. and 36th St., New York City

Fibre Containers, 228 N. LaSalle St., Chicago, Ill.

Good Housekeeping, 57th at 8th, New York City

Hardwood Record, 537 S. Dearborn St., Chicago, Ill.

Industrial and Engineering Chemistry, 810 - 18th St., N. W., Washington, D. C.

Journal of Physical Chemistry, Ithaca, N. Y.

Memphis Lumberman, Columbian Tower, Memphis, Tenn.

Mississippi Valley Lumberman, 1007 Lumber Exchange Bldg.,
Minneapolis, Minn.

Naval Stores Review, Savannah, Ga.

Pacific Pulp and Paper Industry, 71 Columbus St., Seattle,
Wash.

Packages, 304 Montgomery Bldg., Milwaukee, Wis.

Packing and Shipping, 30 Church St., New York City

Paper Trade Journal, 10 E. 39th St., New York City

Pulp and Paper Magazine of Canada, St. Anne de Bellevue,
Gardenvale, Q., Can.

Southern Lumberman, Presbyterian Bldg., Nashville, Tenn.

Technical Association of the Pulp and Paper Industry,
18 E. 41st St., New York City

Timberman, 616 Spalding Bldg., Portland, Oreg.

West Coast Lumberman, 334 Henry Bldg., Seattle, Wash.

Wood Construction, 24 W. Main, Xenia, Ohio

Wood Working Industries, Jamestown, N. Y.

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Chemical composition of wood in relation to physical characteristics, by H. E. Dadswell and L. F. Hawley (in Industrial and Engineering Chemistry, pp. 973-75, October, 1929)

Sequoayite: a cyclose from redwood, *Sequoia sempervirens*, by E. C. Sherrard and E. F. Kurth (in Journal of the American Chemical Society, pp. 3139-41, 1929)

GLUE, PLYWOOD, AND COATINGS

*Aluminum coatings for moisture proofing wood, Technical Note 228. June, 1929

*End coatings for logs and lumber, by L. V. Teesdale (in Transactions of the Society of Mechanical Engineers, 1929)

*Glues for use with wood, Technical Note 207. Revised July, 1929

*Glues for wood in archery, Technical Note 226. May, 1929

*Gluing of wood, by T. R. Truax, Department of Agriculture Bulletin No. 1500. June, 1929

*Making animal glue water resistant, by F. L. Browne (in Transactions of the American Society of Mechanical Engineers, 1929)

-----Same. (in Millwork, pp. 7-9, November, 1929)

-----Same. (in Wood Working Industries, pp. 20-21, 28, November, 1929)

*Significance of mechanical wood joint tests for the selection of wood-working glues, by T. R. Truax, F. L. Browne, and Don Brouse (in Industrial and Engineering Chemistry, pp. 74-79, January, 1929) Mimeograph 825

*Tooth-planing or sanding not necessary to effect strong glued wood joints, Technical Note 227. June, 1929

MECHANICAL PROPERTIES OF WOOD

*Effect of high temperatures on the mode of fracture and other properties of a hardwood, by M. Y. Pillow (in Southern Lumberman, pp. 58, 60, October 15, 1929)

-----Same. (in Wood Working Industries, pp. 8-9, 30, October, 1929)

*Lack of means for applying sufficient end pressure causes tension failures in bending wood stock, by T. R. C. Wilson (in Wood Working Industries, pp. 6-8, 28, November, 1929)

*Nail-holding power of various species of wood, by L. J. Markwardt and J. M. Gahagan (in American Lumberman, pp. 58-59, July 13, 1929)

-----Same. (in Southern Lumberman, pp. 55-56, July 15, 1929)

-----Same. (in Barrel and Box, pp. 16-17, July, 1929)

-----Same. (in Timberman, pp. 142-143, August, 1929)

Strength values of various woods and plywoods, by G. W. Trayer. Chap. 1X in Manual for Inspectors of Airplane Wood, published by U. S. Navy Department; manual for sale by Superintendent of Documents, Government Printing Office, Washington, D. C., for 75 cents, cash or money order.

*Tests of frame wall construction, by G. W. Trayer (in Engineering News-Record, pp. 656-57, October 24, 1929)

Wood bending, by T. R. C. Wilson (in Transactions of the American Society of Mechanical Engineers, October 16-18, 1929)

PULP AND PAPER MANUFACTURE

Can technical development help the paper-board industry? by C. C. Heritage (in Paper Industry, p. 658, July, 1929)

-----Same. (in Paper Mill and Wood Pulp News, p. 16, July 13, 1929)

Decay in pulpwood, by C. A. Richards (in Paper Mill and Wood Pulp News, pp. 14, 33-34, October 12, 1929)

The future of pines in the South's paper industry, by C. P. Winslow (in Naval Stores Review, p. 27, August 24, 1929)

Measurement of the strength and stiffness of fiber boards by means of static bending, by C. C. Heritage, E. R. Schafer, and L. A. Carpenter (in Pulp and Paper Magazine of Canada, pp. 667-71, October 31, 1929)

-----Same. (in Paper Trade Journal, pp. 50-53, October 24, 1929)

-----Same. Evaluating fiber board (in Paper Mill and Wood Pulp News, pp. 10, 12, 33-35, November 2, 1929)

Physical and chemical characteristics of hemp stalks and seed flax straw, by E. R. Schafer (in Industrial and Engineering Chemistry, pp. 1241-44, December, 1929)

*Present and future trends in the pulping of southern woods, by C. E. Curran (in Southern Lumberman, pp. 221-24, December 15, 1929)

-----Same. Pulping of southern woods (in Paper Mill and Wood Pulp News, pp. 6, 8, 16, 18, 20, December 21, 1929)

*Pulp development on the Pacific Coast, by C. P. Winslow (in Timberman, pp. 118, 120, November, 1929)

SEASONING OF WOOD

*Storage of kiln dried lumber, by L. V. Teesdale (in Timberman, pp. 44, 46, December, 1929)

-----Same. (in Southern Lumberman, pp. 227-28, December 15, 1929)

SHIPPING CONTAINERS

*A way to greater economy in packing, by C. A. Plaskett (in Packing and Shipping, pp. 12-23, 32, 34, December, 1929)

-----Same. (in Package Advertiser, November, 1929)

*Developing the technic of observing transportation hazards in relation to shipping containers, by T. A. Carlson and I. B. Lanphier (in Fiber Containers, pp. 12, 14, 16-18, September, 1929)

-----Same. (in Canning Age, pp. 737-41, October, 1929)

- Same. (in Materials Handling and Distribution, pp. 51-52, 55, 68, September, 1929)
- Same. (in Packing and Shipping, pp. 12-14, 30, 34, September, 1929)
- Same. (in Paper Mill and Wood Pulp News, pp. 2, 6, 8, September 7, 1929)
- *Method of recording damage to shipping containers in service, by T. A. Carlson and I. B. Lanphier (in Fiber Containers, pp. 10, 12, 14, October, 1929)
- Same. (in Canning Age, pp. 800-02, November, 1929)
- Same. (in Packing and Shipping, pp. 11-13, November, 1929).
- *Requirements for fiber containers in service, by C. A. Plaskett (in Pulp and Paper Magazine of Canada, pp. 367-68, 382, 384, 386, September 5, 1929)
- *Scientific designing of wire-bound boxes, Part I, by I. B. Lanphier (in Barrel and Box and Packages, pp. 27, 31, December, 1929)

STRUCTURE OF WOOD

- *Dormant buds are not the cause of bird's eyes in maple, by M. Y. Pillow (in Wood Working Industries, pp. 26-27, September, 1929)
- Same: Bird's eyes not due to dormant buds (in Furniture Manufacturer, pp. 106, 108, December, 1929)
- *Relation of growth factors to wood quality: white ash, *Fraxinus americana* L., by B. H. Paul (in Lumber Trade Journal, p. 25, October 1, 1929)
- Same. (in Southern Lumberman, p. 57, August 15, 1929)

*Relation of growth factors to wood quality: growing space, longleaf pine, by B. H. Paul (in Southern Lumberman, pp. 53-54, November 15, 1929)

-----Same. (in Lumber Trade Journal, pp. 30-31, November 15, 1929)

*Relation of rate of growth to the production of white wood in hickory trees, by B. H. Paul (in Southern Lumberman, p. 67, October 1, 1929)

-----Same. (in Lumber Trade Journal, pp. 25-26, October 1, 1929)

WOOD PRESERVATION

*Comparative decay resistance of heartwood of different native species when used under conditions that favor decay, Technical Note 229. June 1929

*Getting longer life from small timber bridges, by R. M. Wirka. Mimeograph

*Roads report tie records of Rocky Mountain timbers, by R. M. Wirka (in Railway Engineering and Maintenance, pp. 382-84, September, 1929)

-----Same: Service records of Rocky Mountain species of ties (in Cross Tie Bulletin, pp. 4, 6, 8, 10, 12, 14, September, 1929)

-----Same. (in Railway Purchases and Stores, pp. 490-94, September, 1929)

WOOD UTILIZATION

*Shortleaf pine: the lumber-making qualities of second-growth and of virgin-growth timber, by E. M. Davis (in Southern Lumberman, pp. 309-10, 312, December 15, 1929)

*Looking forward to better forest utilization, by C. P. Winslow. Reprint.

*Small sawmill utilization of Appalachian hardwoods: Part 1 - Lumber, by R. D. Garver and Ray Miller. Mimeograph R888

White fir lumber for small house construction, by R. P. A. Johnson (in American Lumberman, pp. 38-39, December 14, 1929)

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*Laboratory studies in relation to aircraft, by G. W. Trayer (in Military Engineer, November-December, 1929)

*New test for measuring the fire resistance of wood, by T. R. Truax and C. A. Harrison (in Proceedings of the American Society for Testing Materials, 1929)

*Raised grain: its causes and prevention, by Arthur Koehler (in Southern Lumberman, pp. 210M-O, December 15, 1929)

-----Same. (in Lumber Trade Journal, pp. 17-18, December 15, 1929)

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American Chemical Society, Mills Bldg., Washington, D. C.

American Lumberman, 431 S. Dearborn St., Chicago, Ill.

American Society of Mechanical Engineers, 29 W. 39th St.,
New York City

Barrel and Box and Packages, 542 S. Dearborn St.,
Chicago, Ill.

Canning Age, 521 Fifth Ave., New York City

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Engineering News-Record, 10th Ave. and 36th St.,
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Furniture Manufacturer, 200 Division Ave., N.,
Grand Rapids, Mich.
Industrial and Engineering Chemistry, 810 - 18th St.,
N. W., Washington, D. C.
Lumber Trade Journal, P. O. Drawer 500, New Orleans, La.
Materials Handling and Distribution, 420 Lexington Ave.,
New York City
Military Engineer, 17th at Pennsylvania Ave., N. W.,
Washington, D. C.
Millwork, 309 Montgomery Bldg., Milwaukee, Wis.
Naval Stores Review, Savannah, Ga.
Package Advertiser, 228 N. LaSalle St., Chicago, Ill.
Packing and Shipping, 30 Church St., New York City
Paper Industry, 356 Monadnock Bldg., Chicago, Ill.
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Paper Trade Journal, 10 E. 39th. St., New York City
Pulp and Paper Magazine of Canada, St. Anne de Bellevue,
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Railway Engineering and Maintenance, 105 W. Adams St.,
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Railway Purchases and Stores, 9 South Clinton St.,
Chicago, Ill.
Southern Lumberman, Presbyterian Bldg., Nashville, Tenn.
Timberman, 616 Spalding Bldg., Portland, Oreg.
Wood Working Industries, Jamestown, N. Y.